Include	es hardw	structure - 96 F vare and software with basic level of s secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs require	e a s	tructu	re fo	or sh	aring	,			E = Ex P = Pla M = wi C = Cu	anne ith M	d; odific	ation		NA	3rd P = Not ank> =	Add		100	Э
-	Req. Nbr.	Requirements Description	DMH Comments	<u>Anasazi Software</u>	Askesis Dev Group	Benchmark Sys	Cerner Corp	Defran Svs	Eclipsys Practice Solutions  Duke BH Information	<u>eW</u>	<u>ICANotes</u>	<u>Libera</u> <u>InterComponentWare</u>	<u>McKesson</u>	Netsmart NY	NextStep	OCHIN	Orion Heath	PCE Systems	Raintree Sys	The Echo Group	<u>UNI/Care Sys</u>	<u>Universal</u>
F-35	35 001	The system shall be able to audit the date / time and user of each instance when a client's health information is printed by the system.	Does not include screen print and other functions that are external to the programmed functionality of the EHR system.	F	F	M	F	M	: F	F	E	NA E	F	M	FF	: F	F	E	: 0	P	E	E
		The system shall provide a means to document a client's dispute with their health information currently in the system.	Clients review of their health information may be through on-screen viewing or by printing of their health information. This requirement does not require the client shall document their dispute directly into the system. Methods to document their dispute include direct text entry, scanned copying of client comments, or any other authorized method.	•								NA E										
F-35	35.002 35.003	The system shall be able to identify all users who have accessed an individual's health information over a given time period, including date and time of access.	Specific items / sections of information accessed shall be identified, with appropriate audit trail.	E M	E				: <u>E</u>			NA E										<u> </u>
F-35	35.003		This may be implemented by having a "confidential" section of the client's health information.									NA E										
F-35		The system shall be able to prevent specified user(s) from accessing some or all of a designated client's health information.	An example would be preventing access to a VIP or staff member's health information. When access is restricted, the system shall provide a means for appropriately authorized users to "break the glass" for emergency situations. Such overrides shall be audited.	E				Ξ Ε	E	E		NA E			E E			E E				E

Include	es hardw	tructure - 96 R are and software with basic level of se secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs require	e a s	truct	ure i	for sl	harin	g			P M	= Ex = Pla 1 = wit = Cu	anne th Mo	d; odific	cation	ı;	N	1 = A	d Par Not A <> = N	ddre			
-	Req. Nbr.	Requirements Description	DMH Comments	Anasazi Software	Askesis Dev Group	Benchmark Sys	<u>Cerner Corp</u>	<u>Defran Sys</u>	BH In	Eclipsys Practice Solutions	eWehHealth	Intercomponent/vare	Libera	<u>McKesson</u>	<u>Netsmart NY</u>	<u>NextStep</u>	Noteworthy Medical Sys	OIIOII Healt	PCE Systems	Platton Technologies	Raintree Sys	The Echo Group	UNI/Care Sys	Universa
3)		The system shall be able to retain		Įζ		(O)		(U)	107	U)   -	, <sub>(0</sub> ,	, K	עקן				0) 2		, IOJ	lo,	יטן	2	(U)	
		and retrieve client health																						
		information until purged, deleted, archived or otherwise deliberately																					1	
F-36	36.001	removed.		E	Е	Е	Е	Е	Е	E E	:  E	:   <sub>N</sub>	IA E	E	Е	Е	E E	:   <sub>E</sub>	E	E	Е	Е	ΙE	Ξ
		for archiving client health information, and all supporting electronic files (including	Archiving is used to mean information stored in a retrievable fashion without defining where or how it is stored.																					
F-36	36.002	application software files).	Detrieval deservet imply restauration to accuracy various of the cofficient	M	E	E	E	E	E	<u> </u>	:   <u>E</u>	: N	IA E	E	E	E	=   =	<u> </u>	ᆫ	M	E	M	┝┼	픠
F-36	36.003	The system shall be able to retrieve information that has been archived.	Retrieval does not imply restoration to current version of the software.	M	E	E	E	E	E	E E	E	.   :  N	IA E	E	E	E	E   E	E	E	М	E	М	  E	Ε
		The system shall be able to retain imported client health information, as originally received (unaltered, inclusive of the method in which they were received.	Implies retention for the legally prescribed time frames.																					
F-36	36.005	The gyetom shall be able to		E	E	E	E	E	ᆫ	<u> </u>	<u> </u>	:  N	IA E	ᆫ	E	E	<u> </u>	<u> </u>	<u> </u>	E	E	E	╒┼	픠
		The system shall be able to retrieve information in a manner conducive to recreating the context in which the information was																						
F-36	36 006	obtained.		lΕ	E	E	E	Е	Е	E E	:  E	: I <sub>N</sub>	IA E	E	E	Е	e le	:  =	F	M	l <sub>E</sub>	Е	le l	₌

Includ	es hardw	tructure - 96 Recarre and software with basic level of security secure network.	<b>quirements:</b> rity and systems ready to deploy software. Interoperable EHRs require	a st	ructur	e for	shari	ng			F	E = Ex P = Pla M = wi C = Cu	anne th Mo	d; odific	catio	n;	- 1	NA =	rd Pai Not <i>A</i> k> = l	ddre		· *	
	Req. Nbr.	Requirements Description DMI-	MH Comments	Anasazi Software	Askesis Dev Group	Cerner Corp	<u>Defran Sys</u>	Duke BH Informatics	Eclipsys Practice Solutions	<u>eWebHealth</u>	ICANotes	<u>Libera</u> InterComponentWare	<u>McKesson</u>	<u>Netsmart NY</u>	<u>NextStep</u>	Noteworthy Medical Sys	OCHIN	Orion Heath	Platton Technologies	Raintree Sys	The Echo Group	<u>UNI/Care Sys</u>	Universa
	36.007	The system shall be able to store and retrieve all the elements included in a legal health (medical) record.		E	E M	1 E	E	E	E	E	= 1	NA E	E	E	E	E	E I	= F	M	E	E	E	E
		The system shall provide for oversight, review and confirmation of record(s) destruction prior to destroying specific EHR data / records.			NA M							NA E											
		The system shall be able to destroy EHR data / records so that all traces are unrecoverable.			NA M																		
		The system shall be able to log exported client health information in an auditable form.  The system shall be able to log the			E M							NA E											
F-37	37.002	receipt of client health information in an auditable form.		E	E M	l E	E	E	E	E	- N	NA E	E	E	E	E	E F	<b>≣</b> M	1 M	E	P	E F	E
F-37	37.004	•	amples of audit trails include: tracking record additions, edits, and etions, record access, etc.	M	E M	l E	E	E	E	E	<b>E</b> N	NA E	E	E	E	E	E I	E E	M	E	3	E	E

Include	es <i>hardw</i>	tructure - 96 R are and software with basic level of so secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs requir	e a si	tructu	ıre fo	or sha	aring				P = F $M = V$	Exisition Planne with Market M	ed; lodif	icatio	on;		NA =		arty; : Addr = No l		100	
Req. Ctgy.	Req. Nbr.	Requirements Description	DMH Comments	Anasazi Software	Askesis Dev Group	Benchmark Sys	Cerner Corp	Duke BH Informatics Defran Svs	Eclipsys Practice Solutions	<u>eWebHealth</u>	<u>ICANotes</u>	InterComponentWare	<u>McKesson</u> Libera	<u>Netsmart NY</u>	<u>NextStep</u>	Noteworthy Medical Sys	OCHIN	Orion Heath	PCE Systems	Raintree Sys  Platton Technologies	The Echo Group	<u>UNI/Care Sys</u>	<u>Universal</u>
		The system shall be able to export client related health information	Examples of client related health information include: Performance measurements, chronic disease data, etc.																				
F-38	38.001	from the system.	, , , , , , , , , , , , , , , , , , ,	Е	Е	E	E E	EE	Е	Р	Е	NA E	E	E	Е	Е	Е	E I	EΛ	/ E	E	E	Е
		The system shall be able to import client related health information																					
F-38	38.002	into the system		М	Е	Е	E E	E E	Е	Е	Е	NA E	E	E	Е	Е	Е	E I	E E	E	E	E	Е
F-38	38.003	The system shall allow removal of discrete client identifiers.	De-identification is necessary for research purposes, e.g., to identify patterns of disease. External applications can be used to meet this criterion.	E				E E					E E							и С			E
F-38	38 004	The system shall be able to specify the intended destination of the extracted information.	The user may indicate to whom they are sending results. The lack of control of information once it leaves the practice is acknowledged.	М	NΔ	_	E	E E	F	E	D	ΝΔΕ	≣ N/	ΔE	F	E	E	F 1	M N	4 C	D	E	E
		The system shall allow multiple users to interact concurrently with the EHR application.											=   <del>10</del>										E
	39.002	The system shall allow concurrent users to simultaneously view the same client health information or EHR related information.	Examples of other EHR related information includes: clinical, administrative, or financial reports / analyses and documentation templates.										<u> </u>									E	
	39.004	The system shall provide protection to maintain the integrity of client health information during concurrent access.	Implies protection against simultaneous record update attempts with resultant loss of data	E			E E			E			E E									E	F

Includ	es hardw	tructure - 96 R are and software with basic level of s secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs require	e a si	tructu	ıre f	for si	harin	ıg			P = M =	Exis Plar with Cus	nned n Mo	l; dific	ation;		NA	: 3rd F \ = No  ank>	t Add	dress		se
•	Req. Nbr.		DMH Comments	<u>Anasazi Softwai</u>	Askesis Dev Grou	Benchmark Sy	Cerner Cor	<u>Defran S</u>	BH In	Eclipsys Practice Solution	ICANote	<u>InterComponentWar</u>	<u>Liber</u>	<u>McKessc</u>	<u>Netsmart N</u>	NextSte	Noteworthy Medical Sys	Orion Heat	PCE System	Platton Technologie	Raintree Sv	UNI/Care Sy	Univers
Ctgy.	INDI.	Requirements Description The system shall trigger alerts to	Divin Comments	lo.	D	S	<del>o</del>	S	Š	S    =	S S	Φ	lai	Ď	$\vdash$	Ö lü	à Z	<u> </u>	S	io lo	d &	S   S	<u> </u>
F-39	39.005	simultaneous users of each other's presence in the same data record.		M	_	NΛ	NIA	NIA	_	E	14 E	NIA	_	_	_		.	E	M	M		E	
r-39	39.005	The system shall support the		IVI	_	IVI	INA	INA	_		NA E	INA	⊏	_	_		-  -	-	IVI	IVI E	-  -	ᆤ	╬
		downloading, uploading and secure																					
F-43	12 012	connection for mobile workforce and remote users.		E		N/I	_	_		_  _	:  _	NI A	_	_	_	_  _	:  _	_	E	_	.  -	L	_
F-43	43.013	The system shall be scalable to				IVI	_	_	_		-   -	INA	_	_	_		-  -				-  -	╁	
		meet current and future user																					
F-43	43.038	access and data storage needs.	Involve the III decime the circle to independent of the proposed	E	Е	E	Е	Е	Е	E E	<u> </u>	NA	Е	E	Е	E E	<u> </u>	E	Е	E E	<u> </u>	E	E
		The system shall incorporate a consistent user interface (UI) for	Implies the UI design should be independent of the proposed hardware configuration.																				
F-43	43.039	manual and imported data entry.	Than a trail of the state of th	Е	Е	Е	Е	Е	Е	E E	E	NA	Е	Е	Е	E E	E	Е	Е	E E	E	Е	Е
		The system shall support a variety of data input methods.	Examples of data input include: Voice recognition, Voice dictation, Touch screen, Light pen, Mouse, Keyboard, Electronic tablet, Scanning, Audio files, Optical character recognition, electronic receipt of information (e.g., remote data entry, data file or record uploads, Etc.), "Cut and Paste" or "Copy and Paste", Etc.																				
			Implies support for compliance with Americans with Disabilities Act																				
F-43	43.04		(ADA) requirements.	E	E	E	E	F	E	F N	JA IF	NΑ	F	<sub>F</sub>	М	F	:   :	F	E	F	=	F	
- 70		The system shall support remote																					+-
F-43	43.041	system monitoring technology.		Е	Е	M	Е	Е	Е	E E	E	NA	Е	NA	Е	E E	E	Е	Е	E E	E	Е	Е

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Req. Ctgy.	Req. Nbr.	Requirements Description	DMH Comments	Anasazi Software	Askesis Dev Group	Benchmark Sys	Cerner Corp	Duke BH Informatics	Eclipsys Practice Solutions	<u>eWebHealth</u>	<u>ICANotes</u>	InterComponentWare	McKesson	Netsmart NY	<u>NextStep</u>	Noteworthy Medical Sys	OCHIN	Orion Heath	Platton Technologies	Raintree Sys	The Echo Group	<u>UNI/Care Sys</u>	Universal
F-43	43.042	The system shall incorporate extensive, secure capabilities that link staff from remote locations to the central site.	Staff is general in nature and includes office support and administrative related staff as well as medical service providers.	E	E	E	E E	E	E	П	E	NA E	E	E	E	E	E I	E   E	EE	E	Е	E	Е
		The system shall support and implement redundancy / fault tolerance for 100% system availability.		E			E E					NA E								С			E
F-43		The system shall support secure Web-based system access.				E				E		NA E											E
	43.05	The system shall manage both structured and unstructured health record information during manual and electronic, retrieval, update, reporting, and tracking processes.	Management of actions involving complete or partial records is included.									NA E											E
F-43	43.051	The system shall support efficient linkage of all associations between structured and unstructured health record information.	Includes structured to structured, unstructured to unstructured, and structured to unstructured data associations.	E	E	M	E E	E	E	Р	E	NA E	E	E	E	E	E I	E   E	E M	E	E	E	E
S-01	1.001	The system shall provide support for assigning users role-based system access.	Examples of support include: Assigning access by User identity, User role, User work assignment, Group work assignments, Client's health condition, and Work Context such as time of day or user / client location(s), etc.	E			E E			E		NA E							E E			E	E

Include	es hardw	tructure - 96 R are and software with basic level of se secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs requi	re a s	truct	ure f	for sl	naring	7			P = M =	Exis Plan with Cus	nned Mo	i; difica	ation	;	N/	۸ = ۸		ty; ddres		·	
Req. Ctgy.	Req. Nbr.	Requirements Description	DMH Comments	<u>Anasazi Software</u>	Askesis Dev Group	Benchmark Sys	<u>Cerner Corp</u>	<u>Defran Sys</u>	Duke BH Informatics	<u>eWebHealth</u>	<u>ICANotes</u>	<u>InterComponentWare</u>	<u>Libera</u>	<u>McKessor</u>	Netsmart N	NextStep	Noteworthy Medical Sys	Orion Heath	PCE Systems	Platton Technologies	Raintree Sys	The Echo Group	UNI/Care Sys	l Jniversa
o tgj.		The system shall provide the ability	Implies users are human beings or software applications.	ICD		יטן	O	ין נטן	, <sub>[0</sub>	, <u> </u>	(U)	Į(D	עען	ב		0 10	<i>n</i> 2		ĮO3	(U)	(O)		<i>D</i> [=	
		for authorized system administrators to add / delete users																						
		and assign, modify, or delete																				ı		
		related system access restrictions																						
S-01	1.002	or privileges.		Е	Е	М	Е	E E	E  E	E   E	Е	NA	Е	Е	Е	E E	:  E	E	E	Е	Е	E	E E	Ξ
		The system shall maintain a history																						
S-01	1.004	of system users.		Е	Е	Е	Е	E E	E	E	Е	NA	Е	Е	E	E E	E	E	Е	М	Е	E !	E E	<u> </u>
		The system shall provide the ability																				ı		
C 01	1.018	to define user access to the application's functions.		E	_	_	_	_  .	_  _	:  E	_	NIA	_	_	_	_  .	-  -	-	-	_	_	, I	_  ,	_
S-01	1.016	The system shall require user login				_	_		_   _	-  -		INA					-  -			<u> </u>			= + -	=
		passwords be changed regularly.																				ı		
S-01	1.019			Е	Е	Е	Е	E E	E  E	E	Е	NA	Е	Е	Е	E E	:  E	E	E	Е	Е	ιE Ι΄	E E	Ξ
		The system shall provide timely	Examples of timely support include:																					$\Box$
		·	Automatic notifications to users upon successful access to the																			ı		
			application that the current password is due to expire.																			ı		
S-01	1.02		System Administrator sets how many days prior to password expiration a user will receive related notification.	_	Е	M	_	_	_  _	E	E	NA	_	_	_	_	.  _		F	E		_	E E	=
3-01	1.02	The system shall require valid and	expiration a user will receive related notification.	<u> </u>		IVI			_   _	<del>-                                     </del>	╬	INA					-   =		ᅮ			<u>-</u> 나	=#5	ᅴ
		secure user login passwords																				. [		
S-01	1.022	structured.		E	Е	Е	Е	E E	E  E	E   E	Е	NA	Е	Е	E	E E	:  E	E	Е	Е	Е	ıE İ	E  F	<u> </u>
		The system shall provide the ability																						$\exists$
		to automatically log users out of																				. [		
0.64	4 000	the system after a period of		_	_	_		_	_	.  _		,.,	_	_	_	_  _	_  _		_			_	_  .	_
S-01	1.023	inactivity.		E	Е	Е	E	E E	<u> </u>	E	Е	NA	E	L	L	<u> </u>	:  E	Е	Е	Е	Е	E I	E E	<u> </u>

Include	es hardw	tructure - 96 R are and software with basic level of se secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs requir	e a s	tructı	ure f	or sh	aring	,			P = I	Exisiti Plann with N Custo	ed; //odif	icatio	on;		NA =		arty; Addr = No I		100	
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S-01	1.024	The system shall comply with client confidentiality and privacy.		Е	E	E	E E	ΕΕ	: F	Е	E	NA I	F F	E	E	E	F	E	E E	E	E	E	E
	1.026	The system shall allow a user to mark a client's specific health information as blinded, prohibiting access to other users.				M				E		NA I								EC			
	1.027		Note: This is commonly known as a "break the glass" function. This does not provide permanently increasing access rights for the healthcare service provider.									NA I											
		The "break the glass" function must be capable of requiring the healthcare service provider requesting access to blinded information to document and record the reason(s) for requesting					EN																
S-01 S-02	2.001	access.  The system shall authenticate the user before any access to Protected Resources (e.g. PHI) is allowed, including when not connected to a network e.g. mobile devices.		E	E			<u>VI E</u>				NA I				E			EE		E	E	E

Includ	es hardv	structure - 96 Requirements: vare and software with basic level of security and systems ready to deploy software. Interoperable EHRs require secure network.	e a s	truct	ure i	for si	harin	g			F N	E = Ex P = Pla M = wit C = Cu	anne th M	d; odific	cation	n;	1	NA =	Brd Pa = Not <i>F</i> nk> =	Addre			
Req. Ctgy.	Req. Nbr.	Requirements Description DMH Comments	Anasazi Software	Askesis Dev Group	Benchmark Sys	Cerner Corp	<u>Defran Sy</u> s	Duke BH Informatics	Eclipsys Practice Solutions	eWebHealth		Libers   Lib	<u>McKessor</u>	Netsmart NY	<u>NextStep</u>	Noteworthy Medical Sys	OCHIN	Orion Heath	Platton Technologies PCE Systems	Raintree Sys	The Echo Group	UNI/Care Sys	Universa
		The system shall enforce a limit of consecutive invalid access attempts by a user. The system shall protect against further, possibly malicious, user  Examples of protection against further authentication attempt include: Locking the account / node until released by a System Administrator, locking the account / node for a configurable time period, or delaying the next login prompt according to a flexible delay algorithm.	I KU		JO		(O)				J I	W   W			O	O					ļ	(O)	
S-02	2.004	authentication attempts.	E	Е	Е	Е	Е	Е	E E	EE	N	NA E	Е	Е	Е	Е	E E	E   E	E E	Е	Е	E	E
S-02	2.005	The system shall provide an administrative function that resets passwords.	E	E	M	E	E	E	E E	E E	: N	NA E	E	E	E	E	E E	<b>.</b>   ∃   E	E E	E	E	E	E
		The system shall require the user to change the password after their next successful login when their login account has been reset by a System Administrator .																					
S-02	2.006	The system shall provide only	<u> E</u>	E	Е	E	E	Е	E	E E	<u> </u>	NA E	E	E	Е	Е	E	<u> </u>	<u> </u>	E	E	E	E
S-02	2.007	limited feedback information to the user during login authentication.	F	F	NΑ	F	F	F	E E		:   :   <sub>N</sub>	NA E	F	F	F	F	F	=	=   =  F	F	F	F	F
	2.008	The system shall support case- insensitive usernames that contain typeable alpha-numeric characters in support of ISO-646 / ECMA-6 (aka US ASCII).					E								E		E				E	F	<u>-</u>

Include	s hardw	tructure - 96 R are and software with basic level of se secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs req	uire a s	tructi	ure f	or sh	aring						ned; Mod	; difica	ation;		NA	= 3rd \ = No lank>	ot Ac	ldres		
-	Req. Nbr.	Requirements Description	DMH Comments	Anasazi Software	Askesis Dev Group	<u>Benchmark Sys</u>	<u>Cerner Corp</u>	Duke brillionillatics  Defran Sys	Eclipsys Practice Solutions  Duke BH Information	<u>eWebHealth</u>	<u>ICANotes</u>	<u>InterComponentWare</u>	Libera	McKesson	Netsmart NY	NextStep	OCHIN	Orion Heath	PCE Systems	Platton Technologies	Raintree Sys	The Echo Group	<u>Universal</u> UNI/Care Sys
		The system shall allow an authenticated user to change their																					
		password consistent with password																					
S-02	2.009	strength rules.		lΕ	l <sub>F</sub>	F	E	F  F	:   <sub>F</sub>	F	lF	NA	F I	- l	╒╶┃╒	-  -	l <sub>F</sub>	l <sub>F</sub>	F	F	F IF	:  -	E   E
<u> </u>	2.000	The system shall support case-			†		- 1		+	- <del>  -</del>	+	1			_		+-		+				┯
		sensitive passwords that contain																					
		typeable alpha-numeric characters																					
		in support of ISO-646 / ECMA-6																					
S-02	2.01	(aka US ASCII).		E	Ε	Е	EE	E E	E	E	E	NA	E E	E  I	E  E	∃  E	E	E	Ε	Е	E E	:  E	≣  E
		The system shall not store																					
S-02	2.011	passwords in plain text.		E	Е	Е	E E	E E	E	Е	Е	NA	E E	E	E E	E  E	E	Е	Е	Е	E E	E	E
		The system shall prevent the reuse																					
		of passwords previously used																					
		within a specific (configurable)																					
		timeframe (i.e., within the last X																					
		days, etc e.g. "last 180 days"), or																					
		shall prevent the reuse of a certain																					
		(configurable) number of the most																					
		recently used passwords (e.g. "last																					
S-02	2.012	5 passwords").		E	F	F	E E	-	,   <sub>E</sub>	F	=	$ _{NA} $	<sub>=</sub>  ,	_	_	=	,  =	F	F	М	_  -	:  -	E
J 02	2.012	The system shall provide the ability			╫		<del>                                     </del>	-	ᆂ	╬	╫	117/	<del>-  </del> '	<del>'  </del>	<del>-  </del>	- H'V	╬	╬	╫	171	-	<del>-  </del> -	┿
		to implement Chain of Trust			1																		
S-02	2.015	agreements.		E	С	NA	le le	E E	: I <sub>N</sub> ,	A NA	Ina	NA	F I	NA	E le	=  =	l <sub>N</sub>	ΔĺΕ	М	М	c le	:  -	<u>-</u>

Includ	es hardw	structure - 96 R vare and software with basic level of se secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs requ	uire a	struc	ture :	for si	harin	g					ed; /lodif	icatio	on;		NA =	Brd Pa = Not <i>I</i> nk> =	Addre		1	
Req. Ctgy.	Req. Nbr.	Requirements Description	DMH Comments	Anasazı Software	Askesis Dev Group	Benchmark Sys	<u>Cerner Corp</u>	<u>Defran Sy</u> s	BH In	<u>eWebHealth</u> Eclipsys Practice Solutions	ICANotes	InterComponentWare	McKesson Lihera	Netsmart NY	<u>NextStep</u>	Noteworthy Medical Sys	OCHIN	<u>Orion Heath</u>	Platton Technologies PCE Systems	Raintree Sys	The Echo Group	<u>UNI/Care Sys</u>	Universa
		The system shall support, at a minimum, two-factor authentication in alignment with NIST 800-63				Jos		JO		U)   <u>-</u>	Joz					lo)			O) IO	JUJ		lo2	
S-02	2.016	Level 3 Authentication.		E	NI A	N <sub>I</sub> A	_	N/I			_	NA.	-   -	,   ,   , ,	2	_	_	_	м м	E	_	E	
0-02	2.010	The system shall not export		╁	INA	INA	1	IVI	-	-  -	╬	INA	-   '	A livi	-	╫	_		IVI IVI	╁	_	╫	┢
S-02	2.017	passwords in plain text.		lΕ	E	lΕ	E	Е	E le	ΕE	E	NA	E le	lΕ	lΕ	E	E	Е	E E	lΕ	E	E	E
		The system shall not display																					
S-02	2.018	passwords while being entered.		E	Е	Е	Е	Е	E E	ΕE	Е	NA	E	Е	Е	Е	Е	Е	E E	Е	Ε	Е	Е
6.02	2 004	The system shall include documentation available to the customer that provides guidelines for configuration and use of the EHR System security controls necessary to support secure and reliable operation of the system, including but not limited to: creation, modification, and deactivation of user accounts, management of roles, reset of passwords, configuration of password constraints, and audit				N.O.																	
S-03	3.001	logs.		E	E	NA	ΙE	Е	E E	E	Е	NA I	=  E	Е	Е	ĮΕ	Е	Е	E P	Е	Е	E	Е

Includ	es hardw	tructure - 96 R vare and software with basic level of so secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs require	e a s	tructi	ure 1	for sh	narin	g			P M	E = Exi P = Pla M = wit C = Cu	anne th M	d; odific	catio	n;		NA =	Brd Pa = Not <i>I</i> nk> =	Addre		100	Ð
Req. Ctgy.	Req. Nbr.	Requirements Description	DMH Comments	<u>Anasazi Software</u>	Askesis Dev Group	<u>Benchmark Sys</u>	<u>Cerner Corp</u>	<u>Defran Sys</u>	e BH In	Eclipsys Practice Solutions	eWebHealth		Libera Libera	McKesson	<u>Netsmart NY</u>	<u>NextStep</u>	Noteworthy Medical Sys	OCHIN	Orion Heath	Platton Technologies PCE Systems	Raintree Sys	The Echo Group	<u>UNI/Care Sys</u>	Universa
S-04	4.001	The system shall support protection of confidentiality of all Protected Health Information (PHI) delivered over the Internet or other known open networks via encryption using triple-DES (3DES) or the Advanced Encryption Standard (AES) and an open protocol such as TLS, SSL, IPSec, XML encryptions, or S/MIME or their successors.		E	Е	NA	Е	E	E	E	Ξ Ε		JA E	E	E	E	E	3	E	E E	E	E	E	Е
S-04		The system shall include the capability to encrypt the data communicated over the network via SSL (HTML over HTTPS) for systems that provide access to PHI through a web browser interface (i.e. HTML over HTTP).	Note: Web browser interfaces are often used beyond the perimeter of the protected enterprise network		E						= <u> </u>					E				E E	E		E	E

Includ	es hardw	tructure - 96 R are and software with basic level of se secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs	require a	a str	ucture	e for	sharii	ng			P M	= Exi = Pla = wit = Cu	nned h Mo	d; odific	cation	ո;	N	= 3rd IA = N blank	Not A	ddres		100	
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S-04		The system shall support protection of integrity of all Protected Health Information (PHI) delivered over the Internet or other known open networks via SHA1 hashing and an open protocol such as TLS, SSL, IPSec, XML digital signature, or S/MIME or their successors.		E	Ξ	<u>S</u>   W	A E	E	E	E	E E	: N	A E	Р	E	E	IO)		: E	E	E	E	EE	E
	4.006	The system shall support ensuring the authenticity of remote nodes (mutual node authentication) when communicating Protected Health Information (PHI) over the Internet or other known open networks using an open protocol (e.g. TLS, SSL, IPSec, XML sig, S/MIME).				NA N		E	Е	E	E E					E					Е	E		

Include	s hardw	tructure - 96 R are and software with basic level of so secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs require	e a si	tructi	ure f	or sh	aring	j .			P = M =	Exis Plan with Cus	ned Mo	; difica	ation;		NA	= 3rd \	ot Ad	dres	100	se
	Req. Nbr.	Requirements Description	DMH Comments	Anasazi Software	Askesis Dev Group	<u>Benchmark Sys</u>	Cerner Corp	Defran Sys	Duke BH Informatics	eWebHealth  Eclineve Practice Solutions	<u>ICANotes</u>	<u>InterComponentWare</u>	Libera	<u>McKessor</u>	Netsmart NY	Noteworthy Medical Sys	OCHIN	Orion Heath	PCE Systems	Platton Technologies	Raintree Sys	UNI/Care Sys	Universa
3,7		The system, when storing PHI on any physical media intended to be portable / removable (e.g. thumbdrives, CD-ROM, PDA), shall support use of a standards based encrypted format using triple-DES (3DES), and the Advanced Encryption Standard (AES).		Κυ	2	<u>o</u>	2		57 [0			2	س مر										
	4.007	The system shall have security measures to project data being transmitted via wireless networks, including data communications with portable devices.								IA NA													
	4.008	The system shall provide the ability to obfuscate (intentionally make difficult to read) data.						E E		IA E											E E		
	4.013		For example: a student or trainee is not authorized to release data in a client's EHR, but may enter it. The supervisor or trainer must review and release the data. The supervisor or trainer's identifier must be stored with the released data.							E N													
	4.014	The system shall support the storage of any Protected Health Information (PHI) data on any associated mobile device(s) in an encrypted format.	Implies encryption is via triple-DES (3DES), the Advanced Encryption Standard (AES), or their successors  Examples of mobile devices include: PDAs, smart phones, etc.	E			NA I			IA N									NA		NA E		

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3,		The system, prior to a user login, shall display a warning notice (e.g.		IVD		07		,,	107		107								107	105		Jos	
C 04	4 045	"The system should only be		E	_	ь	_	.  _	   N. A		_	NIA I	E N.			.,	_	_	_  _	-	_	_	
S-04	4.015	accessed by authorized users"). The system shall be able to		E	E	Р		=  =	INA	1 =	<u> </u>	IAN	E IN	ALE	IVI	IVI	E	E		<u> </u>	╬	E	
		support time synchronization using																					
		NTP / SNTP, and use this																					
		synchronized time in all security					_  _	_  _					_						_			_	
S-04	4.016	records of time.		M	Е	NA	E E	<u> </u>	E	E	E	NA	E N.	A M	E	E	E	E	NA E	<u> </u>	E	Е	Е
		The system shall have the ability to format for export recorded time																					
		stamps using UTC based on ISO																					
		8601. Example: "1994-11-																					
		05T08:15:30-05:00" corresponds																					
		to November 5, 1994, 8:15:30 am,																					
0.04	4 0 4 7	US Eastern Standard Time.		_	_		_  _	.  _		_	_	<b></b> ].	_			_	_	_	_  _	.  _	_	_	_
S-04	4.017	The system shall support logging	Examples of audit trails include: Versions of installed software, code	E	E	NΑ		<u> </u>	P	E	E	NAI	E E	3	<u> </u>	E	E	E		<u> </u>	┞	E	
		to a common audit engine using	sets, knowledge bases, backup and recovery resolutions, system date																				
		the schema and transports	/ time changes, archived data storage or restoration, and user EHR																				
		specified in the Audit Log	System access (internal or external).																				
		specification of IHE (Integrated	,																				
		Healthcase Enterprise) , Audit																					
lo		Trails and Node Authentication		<u>.</u> .	_		_	.  _		1		<u>                                     </u>	_  _			1				.  _		_	
S-05	5.001	(ATNA) Profile.		М	E	NA	E N	ЛE	Е	NA	JP_	NA	E E	M	M	M	E	Р	C N	/I [E	3	Е	Е

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		The system shall store the identity of the user for every instance of: Data entry, Data modification, Exchange of data, Data deleted or inactivated, Report or Query requested or executed.		M	E	NA		1 E	E	E	F N/	A E	E		E	EE	: E	E	P	E	0	E	

Inf	ras	tructure - 96 R	equirements:										E = I P = I						3 = 3	3rd Pa	rty;			
			ecurity and systems ready to deploy software. Interoperabl	e EHRs require	a sti	ructu	re fo	or sh	arino	,			M =	with I	Modif	icatio	n;		NA:	= Not /	Addre	esse	d;	
		secure network.							Ĭ				C =	Custo	m;				<bla< th=""><th>nk&gt; =</th><th>No F</th><th>Resp</th><th>ons</th><th>е</th></bla<>	nk> =	No F	Resp	ons	е
					<u>Anasazi S</u>	Askesis Dev	Benchm	<u>Cern</u>	Def	Duke BH Inform	eW etion	<u>IC</u>	InterComponentWa	I ih	<u>Netsr</u>	Z	Noteworthy Medical Sy		Orion He	<u>Platton Technologie</u> <u>PCE System</u>	<u>Raintree</u>	The Echo	<u>UNI/C</u>	U
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	Nbr.	Requirements Description	DMH Comments		var	rou	S۷	<u>Cor</u>	S\		ion le	ote	/ar	her	Ę	Ste	Sy	OCHIN	eat	gie em	Sy	no No	Sy	SSIE
		The system shall be able to detect security-relevant events that it mediates and generate audit records for them. At a minimum the events shall include: start / stop, user login / logout, session timeout, account lockout, client record created / viewed / updated / deleted, scheduling, query, order, node-authentication failure, signature created / validated, PHI export (e.g. print), PHI import, and security administration events. Note: The system is only responsible for auditing security events that it mediates. A mediated event is an event that the system has some active role in allowing or causing to happen or has opportunity to detect. The system is not expected to create audit logs entries for security events that it does not mediate.																						
-05	5.015	does not mediate.			М	le In	NA	E	E E	E	le:	Е	NA	=   <sub>N</sub>	ΑЕ	М	Р	E	E	Е Р	Е	3	E	lΕ

Includ	es <i>hard</i> w	tructure - 96 R vare and software with basic level of so secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs require	e a s	tructi	ure t	for st	narinę	g			P : M	= Exi = Pla = wit = Cu	nned h Mo	d; odific	ation;		N.	A = 1	d Par Not A k> = N	ddre		100	
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	5.016	The system shall record within each audit record the following information when it is available: (1) date and time of the event; (2) the component of the system (e.g. software component, hardware component) where the event occurred; (3) type of event (including: data description and client identifier when relevant); (4) subject identity (e.g. user identity); and (5) the outcome (success or failure) of the event.		M	E	NA	E	E	E	E E	E	N/	A E	E	M	EF	PE	E	E	E	E	3	E	E
	5.017	The system shall provide authorized System Administrators with the capability to review all audit information from the audit records.	Examples of audit records review include: 1) Reports based on ranges of system date and time that audit records were collected. 2) Logs exported into text format in such a manner as to allow correlation based on time (e.g. UTC synchronization).			NA				E E						E E		E E				3	E	E

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Ctgy.	NOT.	The system shall prohibit all users read access to the audit records, except those users that have been granted explicit read-access. The system shall protect the stored audit records from unauthorized deletion. The system shall prevent modifications to the audit records.	DIVIN COMMENTS	loi	lo l	<u>I</u>		S	<u> </u>	<u>                                     </u>	<u> </u>	<u>δ</u>			II≺	io i	<u>/S</u>	<b>Z</b>		5   <u>185</u>		<del>lo</del>	<u>(S</u>	
S-05	5.018	The system shall allow an authorized System Administrator to enable or disable auditing for groups of related events to collect evidence of compliance with implementation-specific policies.	Note: In response to a HIPAA-mandated risk analysis and management, there will be a variety of implementation-specific organizational policies and operational limits.									E NA												
S-05	5.019	The system shall be able to generate a backup copy of the		M	E	NA	E	E	E E	E F	P E	E N	A E	NA	M	Р	E	E E	<u> </u>	M M	С	3	E	Е
S-06	6.001	application data, security credentials, and log/audit files.		E	E	E	E	E	E E	E E	E E	≣ N	ΑE	NA	E	E	E	3 E	E	E	Е	E	E	E

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Ctgy.	INDF.	The system restore functionality	DIVIH Comments	lo	<u>d</u>	S	<del>ol</del>	S	ώ   <sub>0</sub>	ก   <del> ⊃</del>	- IS	0	वि	Ď	$\vdash$	d	7) 2	2   <del> S</del>	N.	liy.	S	<del>o</del>	S	<u>a</u>
		shall result in a fully operational																						
		and secure state. This state shall include the restoration of the																						
		application data, security																						
		credentials, and log / audit files to																						
S-06	6.002	their previous state.		Е	Е	Е	Е	E E	E	E	E	NA	E	NA	Е	E E	3	E	Е	Е	Е	E !	Е	Е
		The system shall have ability to run																						
		a backup concurrently with the operation of the application, if the																						i
		system claims to be available 24x7																						
S-06	6.003			E	E	NA	E	E E	E  E	E  E	E	NA	E	С	Е	E	3	E	Е	E	Е	E	Е	Е
		The system's data and program																						——  
		files shall be capable of being																						i
		backed up by common off the shelf				<b>.</b>		_ l.	_	_  _	.  _	<b>.</b>	_	_	_	_   <sub>-</sub>	_	.  _				_	_	l_
S-06	6.004	(COTS) backup tools.		E	E	NA	ĮΕ	E E	E	:  N	ΑE	NA	E	Е	Ē	E E	E	E	Е	Е	Е	E I	Е	E

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Cigy.	INDI .	The system shall include	Divin Comments	lo	D	S	<del>o</del>	S	S	S	<u> </u>	<u>  [0</u>	<u> </u>   <u> </u>   <u> </u>   <u> </u>		<u> </u>		n Z	<u> </u>	lo lo	)  S	o	S	
		documentation to the user stating																					
		whether or not there are known																					
		issues or conflicts with security																					
		services in at least the following																					
		service areas: antivirus, intrusion																					
		detection, malware eradication, host-based firewall and the																					
		resolution of that conflict (e.g. most																					
		systems should note that full virus																					
		scanning should be done outside																					
		of peak usage times and should																					
		exclude the databases.).																					
S-07	7.001			E	Е	NA	E	Е	E I	E N	NA P	N/	A E	NA	3	E E	EE	E	E F	<u>E</u>	E	Е	E
		The system shall include																					
		documentation that covers the																					
		expected physical environment																					
		necessary for proper secure and																					
		reliable operation of the system including: electrical, HVAC,																					
		sterilization, and work area, if the																					
S-07	7.002	system includes hardware.		E	NA	NA	NA	NA	e li	e le	E E	N	ΑE	NA	E	E le	=   <sub>N</sub>	A E	EN	1  F	Е	Е	E

Includ	es hardw	tructure - 96 R vare and software with basic level of se secure network.	Requirements: ecurity and systems ready to deploy software. Interoperable EHRs require	e a s	tructi	ure f	for sl	harin	g			P = M =	Exist Plare with Cus	nned n Mo	ĺ; dific	ation	;	NA	= 3rd I \	ot Ad	dress	100	se
	Req. Nbr.	Requirements Description	DMH Comments	Anasazi Software	Askesis Dev Group	<u>Benchmark Sys</u>	<u>Cerner Corp</u>	<u>Defran Sys</u>	BH In	Eclipsys Practice Solutions	ICANotes	<u>InterComponentWare</u>	<u>Libera</u>	<u>McKesson</u>	Netsmart NY	<u>NextStep</u>	Noteworthy Medical Sys	Orion Heath	PCE Systems	Platton Technologies	Raintree Sys	UNI/Care Sys	Universal
		The system shall include documentation that itemizes the services and network protocols / ports that are necessary for proper	Examples of services include: PHP; Web services; etc.  Examples of Network protocols / ports include: HL7, HTTP, FTP; etc.																				
0.07	7 000	operation and servicing of the system, including justification of the need for that service and protocol.	This information may be used by the healthcare facility to configure their network defenses (firewalls and routers).	_	E	NI A	_	_			E	, NIA	_	_	_	_	_		E				
S-07	7.003	The system shall include documentation that describes the steps needed to confirm that the system installation was completed and that the system is operational.																					
S-07	7.004	The system shall include documentation that describes the patch (hot-fix) handling process the vendor will use for the EHR System, operating system and underlying tools (e.g. a specific web site for notification of new patches, an approved patch list, special instructions for installation, and past installation tools.		E	E	NA	E	E	E   I	<u>E   E</u>	E	NA	E	E	E	NA E	<u> </u>	E	E	M	<u> </u>	E	E
S-07	7.005	and post-installation test).		Е	Е	NA	E	Е	E I	E N	ΑР	NA	Е	Е	E	E I	E	Е	Е	M I	E E	E	Е

Include	es hardw	tructure - 96 Reare and software with basic level of secure network.	<b>Equirements:</b> urity and systems ready to deploy software. Interoperable EHRs require	a si	tructu	ıre fo	or sha	nring				E = E P = P M = w C = C	lanne rith M	d; odific	catio	n;	١	1A =	rd Pai Not <i>A</i> k> =	Addre		1	
Req. Ctgy.	Req. Nbr.	Requirements Description DI	MH Comments	Anasazi Software	Askesis Dev Group	Benchmark Sys		Duke BH Informatics	Eclipsys Practice Solutions	<u>eWebHealth</u>	ICANotes	InterComponentWare	<u>McKessor</u>	Netsmart NY	<u>NextSte</u> p	Noteworthy Medical Sys	OCHIN	Orion Heath	Platton Technologies	Raintree Sys	The Echo Group	<u>UNI/Care Sys</u>	Universa
	7.006	The system shall include documentation that explains system error or performance messages to users and administrators, with the actions required.		M	E	NA.	EE	: E	E	E	NA	NA E	E	E	E	IO .		E E	M	E	E	E	E
S 07	7.007	The system shall include documentation of product capacities and the baseline representative configurations assumed for these capacities.	xamples of product capacities include: Number of users; Number of ansactions per second; Number of records; Network load; Etc.  xamples of baseline representative configurations assumed for these apacities include: Number or type of processors; Server / workstation onfiguration; Network capacity; Etc.					E E		E		NA E											
	7.007	The system shall include documented procedures for product installation, start-up and / or connection.				NA NA						NA E											
S-07	7.009	The system shall include documentation of the minimal privileges necessary for each service and protocol necessary to provide EHR functionality and / or serviceability.		E		NA						NA E				E						E	E

Includ	es hardw	tructure - 96 R are and software with basic level of se secure network.	<b>equirements:</b> Scurity and systems ready to deploy software. Interoperable EHRs requi	re a s	tructi	ure f	for sh	aring	1			E = E: P = PI M = w C = C	anne ith M	d; odific	cation	ı;	N/	= 3rd A = No lank>	ot Ac	dres	· · · · · · · · ·	
Req. Ctgy.	Req. Nbr.	Requirements Description	DMH Comments	<u>Anasazi Software</u>	Askesis Dev Group	<u>Benchmark Sy</u> s	Cerner Corp	Defran Sys	Eclipsys Practice Solutions  Duke RH Information	<u>eWebHealth</u>	<u>ICANotes</u>	<u>Libera</u> InterComponentWare	<u>McKessor</u>	Netsmart NY	NextStep	Noteworthy Medical Sys	Orion Heath	PCE Systems	Platton Technologies	Raintree Sys	The Echo Group	Universa UNI/Care Sve
S-08	8.001	The software used to install and update the system, independent of the mode or method of conveyance, shall be certified free of malevolent software ("malware"). Vendor may selfcertify compliance with this standard through procedures that make use of commercial malware scanning software.		E	E	NA	E	E E	. E	E	E	NA E		E	E			U	O .	E E	E E	. E
S-08	8.002		Example: System access and availability for all authorized users; System Response times.	С	E	NA	E	E E	E	E	Е	NA E	NΑ	E	E E	E E	E	Е	M	E E	E	E
S-08	8.006	The system shall be configurable to prevent corruption or loss of data already accepted into the system in the event of a system failure (e.g. integrating with a UPS, etc.).		E	E	NA	E	E E	E	E	E	NA E	NA	ΛE	E	E E	E	E	E	E E	E E	E